

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.**

Application Serial Number: 10/579,503
Source: IFWP
Date Processed by STIC: 05/25/2006

ENTERED



IFWP

RAW SEQUENCE LISTING

DATE: 05/25/2006

PATENT APPLICATION: US/10/579,503

TIME: 09:38:07

Input Set : A:\bcs03-2008.st25 seqlist.txt

Output Set: N:\CRF4\05252006\J579503.raw

```

3 <110> APPLICANT: Commonwealth Scientific and Industrial Research Organisation
4     Bayer BioScience NV
5     Waterhouse, Peter
6     Whyard, Steven
7     Van Rie, Jeroen
9 <120> TITLE OF INVENTION: Insect resistance using inhibition of gene expression
11 <130> FILE REFERENCE: BCS03-2008 W01
C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/579,503
C--> 13 <141> CURRENT FILING DATE: 2006-05-16
13 <150> PRIOR APPLICATION NUMBER: US 60/520,306
14 <151> PRIOR FILING DATE: 2003-11-17
16 <160> NUMBER OF SEQ ID NOS: 12
18 <170> SOFTWARE: PatentIn version 3.0
20 <210> SEQ ID NO: 1
21 <211> LENGTH: 27
22 <212> TYPE: DNA
23 <213> ORGANISM: artificial
25 <220> FEATURE:
26 <223> OTHER INFORMATION: designed degenerate primer
28 <400> SEQUENCE: 1
29 aaaacagaag aagaggtaaa aaygara                                27
32 <210> SEQ ID NO: 2
33 <211> LENGTH: 28
34 <212> TYPE: DNA
35 <213> ORGANISM: artificial
37 <220> FEATURE:
38 <223> OTHER INFORMATION: designed degenerate primer
40 <220> FEATURE:
41 <221> NAME/KEY: misc_feature
42 <223> OTHER INFORMATION: n at 20 is c, g, a or t
45 <400> SEQUENCE: 2
W--> 46 ggtttctggc ttcgtctggn gtrtaytt                                28
49 <210> SEQ ID NO: 3
50 <211> LENGTH: 20
51 <212> TYPE: DNA
52 <213> ORGANISM: artificial
54 <220> FEATURE:
55 <223> OTHER INFORMATION: designed degenerate primer
57 <400> SEQUENCE: 3
58 tacaactcsa tcytgaccac                                20
61 <210> SEQ ID NO: 4
62 <211> LENGTH: 22
63 <212> TYPE: DNA

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64 <213> ORGANISM: artificial
66 <220> FEATURE:
67 <223> OTHER INFORMATION: designed degenerate primer
69 <400> SEQUENCE: 4
70 tccatrcctt cwccbacrta cc 22
73 <210> SEQ ID NO: 5
74 <211> LENGTH: 279
75 <212> TYPE: DNA
76 <213> ORGANISM: Aphis gossypii
78 <400> SEQUENCE: 5
79 aaaacagaag aagaggtaaa aatgagaatg aaacagaaaa gcgtgagttg gtgttcaaag 60
81 aagatggaca agaatatgct caagttacca aaatggtggg aaatggacgt ctagaagcaa 120
83 tgtgttttga tgggtgtaaga cgactttgtc acattcgagg aaaacttagg aaaaaggtgt 180
85 ggatcaatca agctgacata gtattgatag gcttacgtga atatcaagat acaaaagccg 240
87 atgtaatttt gaaatacacc ccagacgaag ccagaaacc 279
90 <210> SEQ ID NO: 6
91 <211> LENGTH: 279
92 <212> TYPE: DNA
93 <213> ORGANISM: Myzus persicae
95 <400> SEQUENCE: 6
96 aaaacagaag aagaggtaaa aacgaaaatg aaaccgagaa gcgtgaattg gtgttcaaag 60
98 aagatggcca agaatatgct caagttacca aaatggtggg aaatggacgt ctagaagcta 120
100 tgtgctttga tgggtgttaaa cgactttgcc acatacgagg aaaacttagg aaaaaggtat 180
102 ggattaatca agctgatata gtattaatag gtttacgtga ataccaagac acaaaagccg 240
104 atgtaatttt gaaatacaca ccagacgaag ccagaaacc 279
107 <210> SEQ ID NO: 7
108 <211> LENGTH: 638
109 <212> TYPE: DNA
110 <213> ORGANISM: Aphis gossypii
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <223> OTHER INFORMATION: n at 591, 592 and 637 is a, c, g or t
117 <400> SEQUENCE: 7
118 tcatggctgg actacgaggc catctacgac atctgccgcc ggaacctgga catcgagcgg 60
120 cccacgtaca cgaacctcaa ccggctgacg gggcagatcg tgcgttccc atcacgggcg 120
122 tcgctgcggt tcgacggcgc gctgaacgtc gacctgaccg agttccagac gaacctggtg 180
124 ccgtacccgc gcattcactt cccgctggcc acgtacgcgc cggtcataac ggccgagaag 240
126 gcgtaccacg agcagctgtc cgtggccgaa atcaacccaa cgcgtgcttc gaaccggcca 300
128 aaccagaatg ggtcaagatg cgaccgcgcg cacggcaagt acatgggcct gctgcaatgc 360
130 tgtaaccgcg gcgacgtcgt gcccaaggac atgaacgcgg ccatcgccac catcaagacc 420
132 aagaggacca tcgtgtacgt cgactggtgc ccgaccgggt tcaaggtggg catctactac 480
134 cagccgccga ccgtggtgac gggggcgatc tggccaaggc gcagcgggcg gtgtgcatgt 540
W--> 136 tgtccaacac gacggccatc tccgaggcgt gggcccggt cgaccacaag nntgacctga 600
138 tgtacgtgta cagcgcgctc cgtccactgg tacgtang 638
141 <210> SEQ ID NO: 8
142 <211> LENGTH: 628
143 <212> TYPE: DNA
144 <213> ORGANISM: Myzus persicae
146 <220> FEATURE:

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147 <221> NAME/KEY: misc_feature

148 <223> OTHER INFORMATION: n at 3, 113, 128, 137, 509, 615, 617, and 627 is a, c, g, or

t

151 <400> SEQUENCE: 8

W--> 152 tgnacacagt gactgtgcat tcatgggtcga taatgaagcc atctatgaca tctgccgtcg 60
 154 taatctcgat attgaacgtg cccacttaca ctacttgaa tctgtcttatt ggncagattg 120
 156 tgtcttcnat cacagcntct ctccggttctg atgggtgccct caatggtgac ttgactgaat 180
 158 tccagaccaa tttgggtccca tccccccgta ttcatttccc attgggtcact tatgcaccag 240
 160 tcatctccgc tgaaaagggt taccatgaac aattgtccgt atcagaaatc actaacgctt 300
 162 gttttgaacc agccaaccaa atgggtgaaat gtgatccacg tcatggcaaa tacatggctt 360
 164 gttgcatgtt gtaccgtggt gatgttgatc ccaaagacgt caacgctgcc attgcttcca 420
 166 tcaagaccaa gagaacattc agtttgttga ctggtgtcca actggtttca aagttgggta 480
 168 tcaactacca accccaacc gtggtaccng gtgtgacttg gtctaaagta caacgtgctg 540
 170 tctgcatggt gtccaacact acagctattg ctgaagcttg ggtctagggt tgggtaccaca 600
 172 agttcgtaac ttgcnantac gtccacna 628

175 <210> SEQ ID NO: 9

176 <211> LENGTH: 30

177 <212> TYPE: DNA

178 <213> ORGANISM: artificial

180 <220> FEATURE:

181 <223> OTHER INFORMATION: designed primer sequence

183 <400> SEQUENCE: 9

184 cccaagcttt gcctgggtgtg tggcgaccgg 30

187 <210> SEQ ID NO: 10

188 <211> LENGTH: 30

189 <212> TYPE: DNA

190 <213> ORGANISM: artificial

192 <220> FEATURE:

193 <223> OTHER INFORMATION: designed primer sequence

195 <400> SEQUENCE: 10

196 cccaagctta tcctggaaat agacaagtcg 30

199 <210> SEQ ID NO: 11

200 <211> LENGTH: 408

201 <212> TYPE: DNA

202 <213> ORGANISM: Myzus persicae

204 <400> SEQUENCE: 11

205 tctgtccggtt accattacaa cgctctcaca tgcgaaggat gcaaggggtt cttccggagg 60
 207 agcatcacca agaacgccgt gtaccagtgc aagtacggca acaattgcga aatcgacatg 120
 209 tacatgagggc ggaagtgccca ggagtgcccg ctgaaaaaat gcctgaccgt cggcatgagg 180
 211 cctgaatgtg ttgtacctga agttcaatgc gcagtaaaaa gaaaggagaa aaaagctcaa 240
 213 cgagaaaaag ataaaccaa ttctactaca gacatttctc ctgaaataat aaaaatagaa 300
 215 cctacagaga tgaagattga atgtggtgaa ccaatgataa tgggcacacc tatgccgact 360
 217 gtaccttacg tgaaaccttt gagttctgaa caaaaagaac tgatccac 408

220 <210> SEQ ID NO: 12

221 <211> LENGTH: 1173

222 <212> TYPE: DNA

223 <213> ORGANISM: Myzus persicae

225 <220> FEATURE:

226 <221> NAME/KEY: misc_feature

227 <223> OTHER INFORMATION: n at 704 is c, g, a, or t

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230 <400> SEQUENCE: 12
231 tgccagcgca tttgcgacca gtgggacaga ttaggtagct tgacacagaa acggagaact      60
233 gacttggatg atgcagaaaa aatattagag aaaattgata tattgcattt ggaattcgct      120
235 aagagagcag ctccctttcaa caactggttg gatggtacac gtgaagattt agtggacatg      180
237 ttcattgtac acactgttga ggaaatccaa ggattgattg atgcacatgg acaatttaag      240
239 gctactttgt ctgatgctga caaagagtac aactctatca ttggactggg caaagatgtt      300
241 gagtcaactg tacaaaaata ccaaatacct ggtggtcttc agaaccgta cactactttg      360
243 acttctagtg atttaagcaa aaaatggtct gaagtgaac atttagtgcc ccaaagagac      420
245 acgaccctcc aagctgaact cagaaaacaa caaaacaatg agatgctacg tcgtcaattt      480
247 gcggagaagt caaatcaagt gggtccttgg attgagaggc aaatggacgc tgtcacggcc      540
249 atcggtatgg gattgcaggt tctctggaag atcaattgca ccaactgaaa caatttaggg      600
251 ctactttgtc tgatgctgac aagagtacaa ctctatcatt ggactggtca agatgttgag      660
W--> 253 tcaactgtac aaaaatacca aatacctggt ggtcttcaga accngtacac tactttgact      720
255 tctagtgatt taagcaaaaa atggtctgaa gtgaaacatt tagtgcccca aagagacacg      780
257 accctccaag ctgaactcag aaaacaacaa aacaatgaga tgctacgtcg tcaatttgcg      840
259 gagaagtcaa atcaagtggg tccttggatt gagaggcaaa tggacgctgt cacggccatc      900
261 ggtatgggat tgcaaggttc tctggaagat caattgcacc aactgaaaca atacgaacag      960
263 aatgtgtttg catacaagcc acatattgag gaattagaga aaatccacca agctgtacaa     1020
265 gagggtatga tcttcgaaaa caggtatact caatacacia tggagacatt acgtgttgga     1080
267 tgggaacaac tattgacgtc cataaatcgc aatgtgaatg aagtagaaaa ccaaattattg     1140
269 accagagact ccaaaggcat caccaggag  cag                                     1173

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RAW SEQUENCE LISTING ERROR SUMMARY

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TIME: 09:38:08

Input Set : A:\bcs03-2008.st25 seqlist.txt

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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:2; N Pos. 20

Seq#:7; N Pos. 591,592,637

Seq#:8; N Pos. 3,113,128,137,509,615,617,627

Seq#:12; N Pos. 704

Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete, per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:1,2,3,4,9,10

VARIABLE LOCATION SUMMARY

DATE: 05/25/2006

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Input Set : A:\bcs03-2008.st25 seqlist.txt

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Use of n's or Xaa's (NEW RULES):

Use of n's and/or Xaa's have been detected in the Sequence Listing.

Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

in <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

Seq#:2; N Pos. 20

Seq#:7; N Pos. 591,592,637

Seq#:8; N Pos. 3,113,128,137,509,615,617,627

Seq#:12; N Pos. 704

VERIFICATION SUMMARY

DATE: 05/25/2006

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Input Set : A:\bcs03-2008.st25 seqlist.txt

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L:13 M:270 C: Current Application Number differs, Replaced Current Application No
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:46 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:2
L:46 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:0
L:136 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:7
L:136 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:540
M:341 Repeated in SeqNo=7
L:152 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:8
L:152 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:0
M:341 Repeated in SeqNo=8
L:253 M:258 W: Mandatory Feature missing, <222> Tag not found for SEQ ID#:12
L:253 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:660